

## ABSTRACT

Methods and systems of the present invention automatically and differentially detect and correct linear motion artifacts caused by camera movement and regional subject motion artifacts. Regional subject motion artifacts may be caused, for example in endoscopic or other surgery, by movement of surgical tools or the patient within the image field. Methods and systems of the present invention automatically correct for both types of motion occurring simultaneously. After an image is automatically corrected for both camera motion and regional subject motion, the image is displayed for viewing.

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